

Release notes for ENDF/B Development g-023_V_051
evaluation

ENDF
B-VII.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=2328, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=2328, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 96 TO 146
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=2328, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=2328, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 96
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 3 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 3
SECTION 3/ 3 NOT IN DIRECTORY RECORD NUMBER 148
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 175
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 198
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 22 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 210
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 28 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 219
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 50 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 50 | RECORD NUMBER | 232 |
| SECTION 3/ 50 NOT IN DIRECTORY | | |
8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 51 | RECORD NUMBER | 255 |
| SECTION 3/ 51 NOT IN DIRECTORY | | |
9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 52 | RECORD NUMBER | 278 |
| SECTION 3/ 52 NOT IN DIRECTORY | | |
10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 53 | RECORD NUMBER | 301 |
| SECTION 3/ 53 NOT IN DIRECTORY | | |
11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 54 | RECORD NUMBER | 323 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 55 | RECORD NUMBER | 345 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 56 | RECORD NUMBER | 367 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 57 | RECORD NUMBER | 388 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 58 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 58 | RECORD NUMBER | 409 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 59 | RECORD NUMBER | 430 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 60 | RECORD NUMBER | 450 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 61 | RECORD NUMBER | 470 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 62 | RECORD NUMBER | 490 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 63 | RECORD NUMBER | 509 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 64 | RECORD NUMBER | 528 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 65 | RECORD NUMBER | 547 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT= 91 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 3, MT= 91 | | |
| | SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER | 565 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT=102 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 3, MT=102 | | |
| | SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER | 583 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT=103 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 3, MT=103 | | |
| | SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER | 610 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT=104 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 3, MT=104 | | |
| | SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER | 635 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT=105 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 3, MT=105 | | |
| | SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER | 650 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT=106 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 3, MT=106 | | |
| | SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER | 663 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT=107 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 3, MT=107 | | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER | 671 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 3, MT=111 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 3, MT=111 | | |
| | SECTION 3/111 NOT IN DIRECTORY | RECORD NUMBER | 689 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 16 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 16 | | |
| | SECTION 6/ 16 NOT IN DIRECTORY | RECORD NUMBER | 700 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 22 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 22 | | |
| | SECTION 6/ 22 NOT IN DIRECTORY | RECORD NUMBER | 799 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 28 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 28 | | |
| | SECTION 6/ 28 NOT IN DIRECTORY | RECORD NUMBER | 862 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 50 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 50 | | |
| | SECTION 6/ 50 NOT IN DIRECTORY | RECORD NUMBER | 961 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 51 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 51 | | |
| | SECTION 6/ 51 NOT IN DIRECTORY | RECORD NUMBER | 972 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 52 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 52 | | |
| | SECTION 6/ 52 NOT IN DIRECTORY | RECORD NUMBER | 983 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 53 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 53 | | |
| | SECTION 6/ 53 NOT IN DIRECTORY | RECORD NUMBER | 994 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 54 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 54 | | |
| | SECTION 6/ 54 NOT IN DIRECTORY | RECORD NUMBER | 1005 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 55 | RECORD NUMBER | 1016 |
| SECTION 6/ 55 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 56 | RECORD NUMBER | 1027 |
| SECTION 6/ 56 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 57 | RECORD NUMBER | 1038 |
| SECTION 6/ 57 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 58 | RECORD NUMBER | 1049 |
| SECTION 6/ 58 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 59 | RECORD NUMBER | 1060 |
| SECTION 6/ 59 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 60 | RECORD NUMBER | 1071 |
| SECTION 6/ 60 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 61 | RECORD NUMBER | 1082 |
| SECTION 6/ 61 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 62 | RECORD NUMBER | 1093 |
| SECTION 6/ 62 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 63
SECTION 6/ 63 NOT IN DIRECTORY RECORD NUMBER 1104

48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 64 (0): Directory (b)

ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 64
SECTION 6/ 64 NOT IN DIRECTORY RECORD NUMBER 1115

49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 65 (0): Directory (b)

ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 65
SECTION 6/ 65 NOT IN DIRECTORY RECORD NUMBER 1126

50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2328, MF= 6, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=2328, MF= 6, MT= 91
SECTION 6/ 91 NOT IN DIRECTORY RECORD NUMBER 1137

• **fizcon** Errors:

1. Missing files (probably spectra for outgoing particles)
MAT -1 MF 6 (1): Missing files (a)

ERROR(S) - MISSING SECTIONS IN MAT -1 MF 6
PRESENCE OF FILE 3, MT= 102 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 103 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 104 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 105 REQUIRES AN EQUIVALENT SECTION IN FILE 6
... [3 more lines]

• **fudge-4.0** Errors:

1. Calculated and tabulated Q values disagree.
reaction label 0: n + V50 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11357861.89276886 eV vs -1.1051e7 eV!

2. Calculated and tabulated Q values disagree.
reaction label 1: n + V50_e1 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11583861.89276886 eV vs -1.1277e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 2: n + V50_e2 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11677861.89276886 eV vs -1.1371e7 eV!

4. Calculated and tabulated Q values disagree.
reaction label 3: n + V50_e3 (Error # 0): Q mismatch

- WARNING: Calculated and tabulated Q-values disagree: -11712861.89276886 eV vs -1.1406e7 eV!
5. Calculated and tabulated Q values disagree.
reaction label 4: $n + V50_e4$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -11745861.89276886 eV vs -1.1439e7 eV!
6. Calculated and tabulated Q values disagree.
reaction label 5: $n + V50_e5$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12193861.89276886 eV vs -1.1887e7 eV!
7. Calculated and tabulated Q values disagree.
reaction label 6: $n + V50_e6$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12267861.89276886 eV vs -1.1961e7 eV!
8. Calculated and tabulated Q values disagree.
reaction label 7: $n + V50_e7$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12268861.89276886 eV vs -1.1962e7 eV!
9. Calculated and tabulated Q values disagree.
reaction label 8: $n + V50_e8$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12658861.89276886 eV vs -1.2352e7 eV!
10. Calculated and tabulated Q values disagree.
reaction label 9: $n + V50_e9$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12688861.89276886 eV vs -1.2382e7 eV!
11. Calculated and tabulated Q values disagree.
reaction label 10: $n + V50_e10$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12759861.89276886 eV vs -1.2453e7 eV!
12. Calculated and tabulated Q values disagree.
reaction label 11: $n + V50_e11$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12852861.89276886 eV vs -1.2546e7 eV!
13. Calculated and tabulated Q values disagree.
reaction label 12: $n + V50_e12$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12875861.89276886 eV vs -1.2569e7 eV!
14. Calculated and tabulated Q values disagree.
reaction label 13: $n + V50_e13$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12919861.89276886 eV vs -1.2613e7 eV!
15. Calculated and tabulated Q values disagree.
reaction label 14: $n + V50_e14$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13034861.89276886 eV vs -1.2728e7 eV!

16. Calculated and tabulated Q values disagree.
reaction label 15: $n + V50_e15$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13057861.89276886 eV vs -1.2751e7 eV!
17. Calculated and tabulated Q values disagree.
reaction label 16: $n + V50_c$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13057861.89276886 eV vs -1.2751e7 eV!
18. Calculated and tabulated Q values disagree.
reaction label 17: $n[multiplicity:'2'] + V49$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -20693790.54432678 eV vs -2.0385e7 eV!
19. Calculated and tabulated Q values disagree.
reaction label 18: $n + H1 + Ti49$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -19309587.90341187 eV vs -1.9e7 eV!
20. Calculated and tabulated thresholds don't agree
reaction label 19: $V51 + \text{gamma} / \text{Cross section:}$ (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.e6 eV!
21. Calculated and tabulated Q values disagree.
reaction label 20: $n + He4 + Sc46$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -21247216.689888 eV vs -2.0936e7 eV!
22. Calculated and tabulated Q values disagree.
reaction label 21: $H1[multiplicity:'2'] + Sc49$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -20533672.92140198 eV vs -2.0218e7 eV!
23. Calculated and tabulated Q values disagree.
reaction label 22: $H1 + Ti50_s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -8370397.780014038 eV vs -8.061e6 eV!
24. Calculated and tabulated Q values disagree.
reaction label 23: $H2 + Ti49_s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -17085021.8024826 eV vs -1.6776e7 eV!
25. Calculated and tabulated Q values disagree.
reaction label 24: $H3 + Ti48_s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -18970178.35560608 eV vs -1.8661e7 eV!
26. Calculated and tabulated Q values disagree.
reaction label 25: $He3 + Sc48_s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -22943213.28445435 eV vs -2.2637e7 eV!

27. Calculated and tabulated Q values disagree.
reaction label 26: He4 + Sc47-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10600893.88382721 eV vs -1.0293e7 eV!

• **xsectplotter** Warnings:

1. Encountered runtime warning in xsectplotter or Fudge or matplotlib
(Error # 2): RuntimeWarning

/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/font_manager.py:273: U
 /usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:524: Runtime

2. Encountered runtime warning in xsectplotter or Fudge or matplotlib
/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:524:
RuntimeWarning: More than 20 figures have been opened. Figures created through the
pyplot interface ('matplotlib.pyplot.figure') are retained until explicitly closed and may
consume too much memory. (To control this warning, see the rcParam 'figure.max_open_warning').
(Error # 0): RuntimeWarning

max_open_warning, RuntimeWarning)